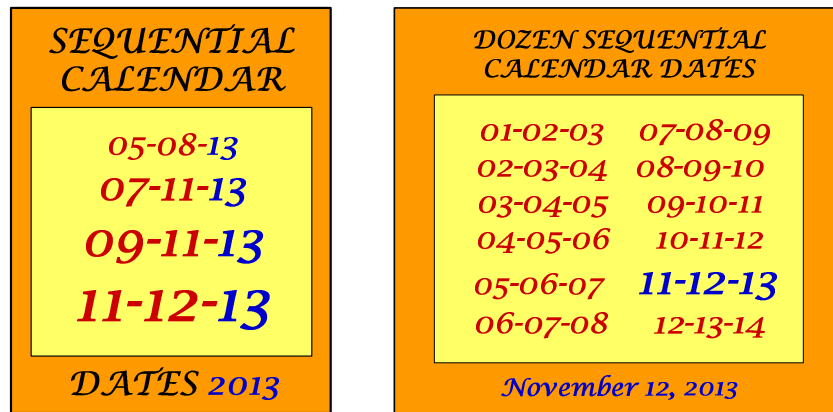


### Sequential Calendar Dates of 2013

(Aziz S. Inan, Ph.D., Professor, Electrical Engineering, University of Portland, Portland, Oregon)  
(November 7, 2013)



If a calendar date in month-day-year date format is expressed as a six-digit number using only the rightmost two digits of the year, like today's date being 11-07-13, representing November 7, 2013, this year contains some very interesting sequential calendar dates.

First, consider the date of November 12, 2013, to occur next week, expressed as 11-12-13, where 11, 12 and 13 are three consecutive integers. Each century contains twelve such sequential number calendar dates, the first being 01-02-03 and the last one, 12-13-14. So, December 13, 2014 will be the last such sequential calendar date in the 21st century (see Table 1).

Second, the date of September 11, 2013, written as 09-11-13, consists of three consecutive odd integers, 9, 11, and 13. Each century has six of these sequential odd-number calendar dates, the first being 01-03-05 and the last one is 11-13-15, representing November 13, 2015 in this century (see Table 2). Note that the next similar sequential even-number calendar date of this century is 10-12-14 (October 12, 2014) and the last one will be 12-14-16, to occur in 2016 (see Table 3).

Third, consider the date of July 11, 2013, expressed as 07-11-13, where 7, 11, and 13 are three consecutive prime numbers. Each century contains five such sequential prime-number calendar dates, the first one being 02-03-05 and the last one 11-13-17, which in this century represents November 13, 2017 (see Table 4).

Lastly, consider the date of May 8, 2013 written as 05-08-13, where 5, 8, and 13 constitute three consecutive Fibonacci numbers. There are six such sequential Fibonacci-number calendar dates in every century, the first one being 01-01-02 and the last one is 08-13-21, corresponding to August 13, 2021 in this century (see Table 5).

Note that these types of sequential calendar dates are all clustered around the first two decades of each century, simply due to the fact that the month number of a calendar date cannot exceed 12. However, there exists other sequential calendar dates which extend further into a century. For example, each century has three sequential perfect square calendar dates. In this century, the first occurred on 01-04-09 (January 4, 2009) and the next one will be 04-09-16, to occur on April 9, 2016 (see Table 6). Also, there are two sequential cube-number calendar dates in each century, first being 01-08-27, to occur in this century on January 8, 2027, and the second is 08-27-64, to occur on August 27, 2064 (see Table 7).

Sequential calendar dates are really fun brainteasers and there is a special one coming up next week, 11-12-13. After this one, there will be one more such sequential date to occur next year, on 12-13-14, never occurring again in this century. So, I hope you will enjoy 11-12-13, and pay special attention

on that day to the time at 08:09:10, because that time can be expressed in terms of six consecutive numbers as 08:09:10-11-12-13!

Table 1—Sequential Number Calendar Dates of the 21st Century

1. January 2, 2003	01-02-03	7. July 8, 2009	07-08-09
2. February 3, 2004	02-03-04	8. August 9, 2010	08-09-10
3. March 4, 2005	03-04-05	9. September 10, 2011	09-10-11
4. April 5, 2006	04-05-06	10. October 11, 2012	10-11-12
5. May 6, 2007	05-06-07	11. November 12, 2013	11-12-13
6. June 7, 2008	06-07-08	12. December 13, 2014	12-13-14

Table 2—Sequential Odd-Number Calendar Dates of the 21st Century

1. January 3, 2005	01-03-05	4. July 9, 2011	07-09-11
2. March 5, 2007	03-05-07	5. September 11, 2013	09-11-13
3. May 7, 2009	05-07-09	6. November 13, 2015	11-13-15

Table 3—Sequential Even-Number Calendar Dates of the 21st Century

1. February 4, 2006	02-04-06	4. August 10, 2012	08-10-12
2. April 6, 2008	04-06-08	5. October 12, 2014	10-12-14
3. June 8, 2010	06-08-10	6. December 14, 2016	12-14-16

Table 4—Sequential Prime-Number Calendar Dates of the 21st Century

1. February 3, 2005	02-03-05	4. July 11, 2013	07-11-13
2. March 5, 2007	03-05-07	5. November 13, 2017	11-13-17
3. May 7, 2011	05-07-11		

Table 5—Sequential Fibonacci-Number Calendar Dates of the 21st Century

1. January 1, 2002	01-01-02	4. March 5, 2008	03-05-08
2. January 2, 2003	01-02-03	5. May 8, 2013	05-08-13
3. February 3, 2005	02-03-05	6. August 13, 2021	08-13-21

Table 6—Sequential Perfect Square Calendar Dates of the 21st Century

1. January 4, 2009	01-04-09
2. April 9, 2016	04-09-16
3. September 16, 2025	09-16-25

Table 7—Sequential Cube-Number Calendar Dates of the 21st Century

1. January 8, 2027	01-08-27
2. August 27, 2064	08-27-64